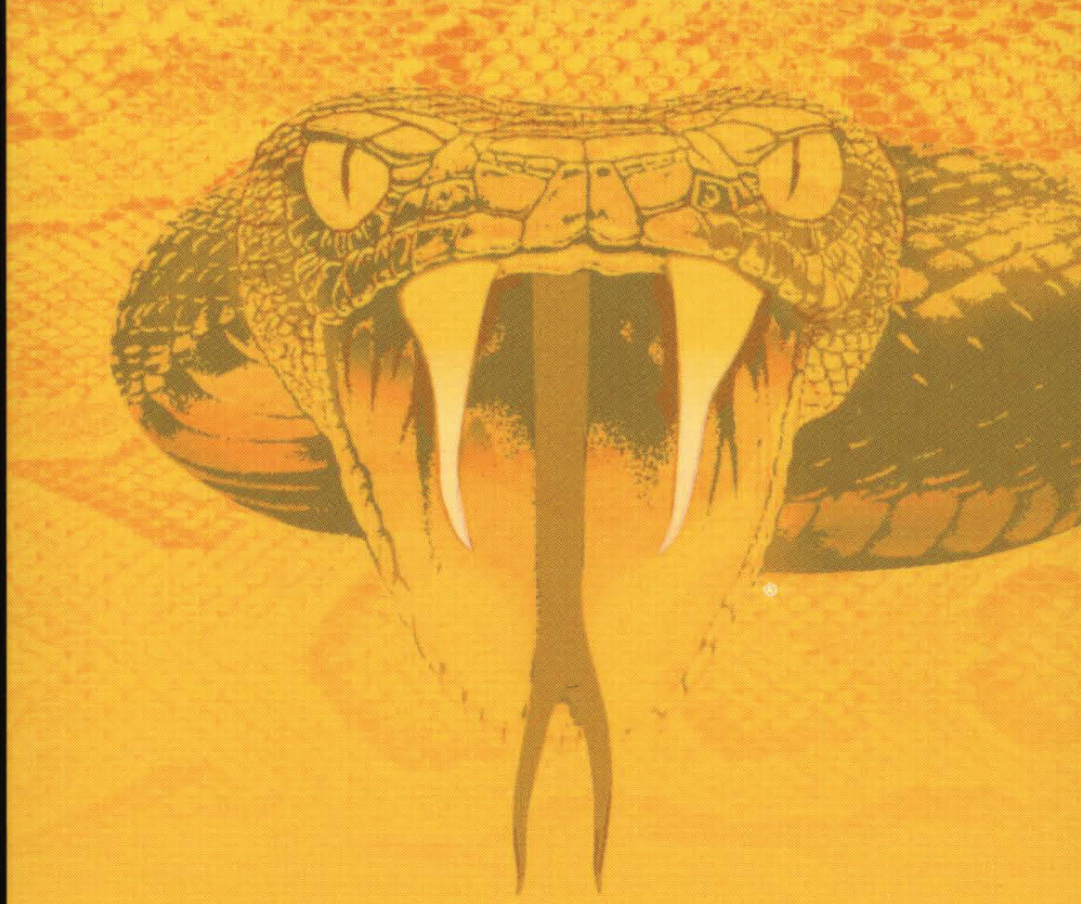
VIPER®



NO ONE DARES
COME CLOSE™

OWNER'S GUIDE

RESPONDER™ ONE

Contents

Government Regulations 2
Warning! Safety first 3
What is Included 5
Important Information 5
- Your Warranty 5
- System Maintenance 5
- Battery Replacement 6

Using Your System 7
- Unlocking 7
- Car Finder 7
- Ignition Controlled Door Locks 7
- Remote Start 8
- Valet Take-Over 10

Programming options 11
Glossary of Terms 11
Quick Reference Guide 13
Limited lifetime consumer warranty 15

Government Regulations

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

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⚠ Warning! Safety first

The following safety warnings must be observed at all times:

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer.

When properly installed, this system can start the vehicle via a command signal from the remote control transmitter. Therefore, never operate the system in an enclosed area or partially enclosed area without ventilation (such as a garage). When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the installed toggle switch. It is the user's sole responsibility to properly handle and keep out of reach from children all remote control transmitters to assure that the system does not unintentionally remote start the vehicle. THE USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST AT ALL TIMES REMAIN CLOSED. These precautions are the sole responsibility of the user.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user must also have the neutral safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in the product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the authorized Directed dealer to fix the problem.

After the remote start module has been installed, contact your authorized dealer

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to have him or her test the remote start module by performing the Safety Check outlined in the product installation guide. If the vehicle starts when performing the Neutral Safety Shutdown Circuit test, the remote start unit has not been properly installed. The remote start module must be removed or the installer must properly reinstall the remote start system so that the vehicle does not start in gear. All installations must be performed by an authorized Directed dealer.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. YOU MUST IMMEDIATELY CEASE THE USE OF THE UNIT AND SEEK THE ASSISTANCE OF AN AUTHORIZED Directed DEALER TO REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

This product is designed for fuel injected, automatic transmission vehicles only. Use of this product in a standard transmission vehicle is dangerous and contrary the product's intended use.

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What is Included

- The control module
- Two 1-button transmitters (P/N 7211V)
- A push-button programming switch
- Your warranty card
- A shut-down toggle switch

Important Information

Congratulations on the purchase of your remote start keyless entry system. This system has been designed to provide years of trouble-free operation. By carefully reading this owner's guide prior to using your system, you can maximize the use of this system and its features. Additional or replacement copies of this guide can be printed by accessing the Directed Electronics internet website at **www.directed.com**.

Your Warranty

Your warranty card must be completely filled out and returned within 10 days of purchase. Your product warranty is not honored if your warranty card is not returned. Make sure that you receive the warranty card from your dealer.

System Maintenance

The system requires no specific maintenance. Your remote is powered by two CR2016 cell batteries. When the batteries weakens, the LED on the remote dims and operating range is reduced.

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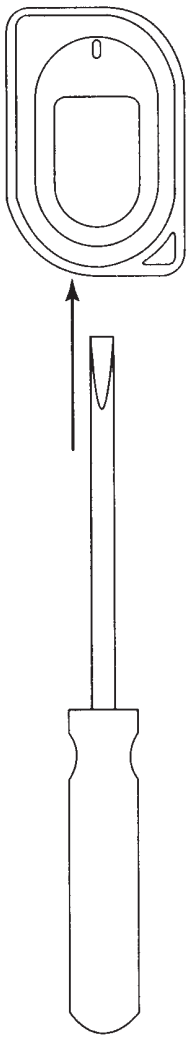
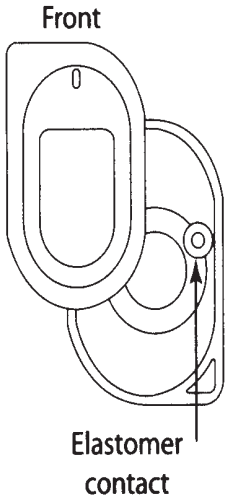
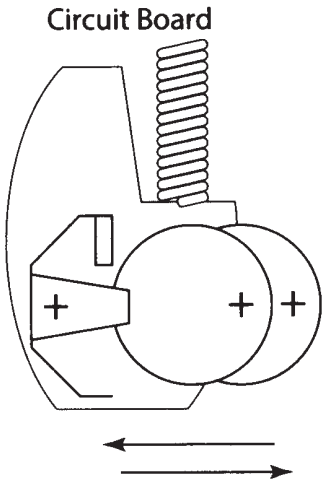
Battery Replacement



1. Using a small slotted screwdriver, insert into slot located on the side of the unit as shown and carefully pry the front of the unit up, working your way around the edge until the front is completely separated from the housing.



Note: Make sure that the small elastomer contact located inside the unit as shown does not fall out during the replacement process.



2. Turn the circuit board over, remove batteries from clip and replace.

Note: Verify that the battery polarity is correct when replacing. Batteries are stacked in series and polarity is indicated.

3. Reposition all parts and snap together.

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Unlocking

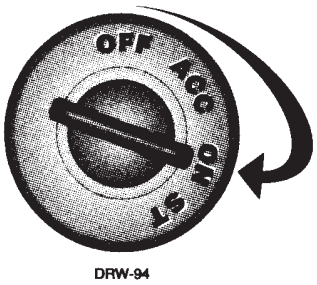
Only after the vehicle is remotely started via the transmitter, press and release the transmitter button for 1 second to unlock the vehicle's doors. The remote responds with 2 short beeps and the green LED on the remote flashes once. The vehicle responds by flashing the parking lights twice and honking the horn twice to confirm unlocking.

Note: horn honk is an optional feature.

Car Finder

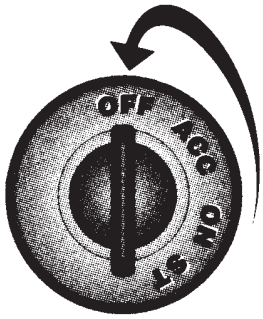
Before the vehicle is remotely started via the transmitter, press and hold the transmitter button for 3 seconds to activate the car finder function. The vehicle responds by flashing the parking lights 5 times slowly. The remote responds with 1 short beep and the orange LED on the remote flashes once.

Ignition Controlled Door Locks

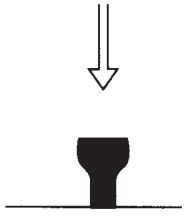


DRW-94

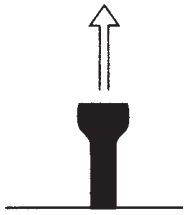
If power door locks have been connected to your system, the doors will lock three seconds after the ignition is turned on, and unlock when the ignition is turned off.



LOCK



UNLOCK



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Note: In order for the ignition controlled door locks to work, the feature must be turned on in programming.

Note: If the ignition is turned on while the vehicle is remote started the doors do not lock until the remote start shuts off. To avoid being locked out of the vehicle, do not turn the ignition on until you are ready to drive the vehicle.

Remote Start

This feature allows you to remotely start and run your vehicle for a programmable period of time. This makes it possible to warm up the engine, as well as adjust the interior temperature of the vehicle with the climate control system. If interior heating or cooling is desired, the climate controls must be preset, and the fan blower must be set to the desired level prior to remote starting the vehicle.

> **Important!** (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the key in the ignition.

To remote start the vehicle:

1. Press the single button on the transmitter once.
2. The remote responds with the remote start On tones and the green LED on the remote flashes once. The vehicle's parking lights turn ON constant to confirm remote start operation.
3. Once the vehicle has started, it runs for the pre-programmed period of time (12, 24, or 60 minutes) or until a shutdown input is triggered. This can be set to minute increments by your installer.

To shut off the remote start:

While the vehicle is remote started press and hold the button on the

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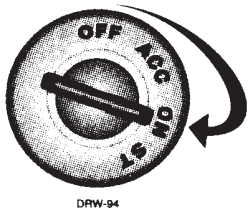
remote for 3 seconds. The remote plays the remote start shut off tones and the orange LED flashes 1 time. The vehicle shuts down from the remote start mode.

Once the remote start is on, when you are ready to drive the vehicle:

1. Insert the ignition key and turn it to the ON (not the START) position.



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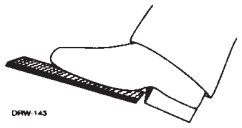
2. Press the brake pedal. The vehicle stays running and is ready to drive.


DRW-143

Note: If the brake pedal is pressed before the key is in the ON position, the engine shuts down.

While the vehicle is running during remote start operation, the system monitors the vehicle and automatically shuts down the engine if the system receives any of the following shut-down inputs:

- The brake pedal is pressed.
- The hood is opened.
- The shutdown toggle switch is put into the ON position.
- The pre-programmed run time has elapsed.
- The single button is pressed and held for 3 seconds.

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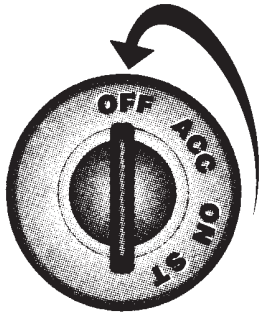
Valet Take-Over

The Valet Take-Over feature allows the vehicle to remain running after the key has been removed from the ignition. This feature is useful for occasions when you wish to exit and lock the vehicle for short periods of time, but would like to leave the motor running and the climate controls on.

To perform Valet Take-Over:

1. Before turning off the engine, press and release the single button once. The remote responds with the remote start ON tones and the green LED on the remote flashes once. The vehicles parking lights turn on constant to confirm remote start operation.



2. Turn the ignition key to the OFF position. (The engine stays running.)

3. The engine runs until pre-programmed time elapses or a shut-down input is received. (See the previous Remote Start section for a complete list of shut-down inputs.)

Note: This feature does not work if the brake pedal is being pressed.

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Programming options

Programming options control your system's normal operational set-up. Most options do not require additional parts, but some may require installation labor.

The following is a list of the programmable options, with the factory settings in **bold**.

- **12**, 24, or 60 minute run time. Your system can be programmed to allow the vehicle to run for 12, 24, or 60 minutes when remote started. Can be set up to minute increments by your installer.

- Parking lights flashing or **constant**. Your system can be programmed to turn on the parking lights for the entire remote start operation.

Glossary of Terms

Control Unit: The "brain" of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all the system functions.

Transmitter: A hand-held, remote control which operates the various functions of your system.

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Quick Reference Guide

Cut along the dotted line and told to keep in purse or wallet for a quick and easy reference.

To remote start the vehicle

- Press and release the transmitter button for 1-second. The remote responds with the remote start ON tones and the green LED on the remote flashes once. The parking lights turn on constant to confirm remote start operation.

To shut down remote start

- Press and hold the transmitter button for 3 seconds. The remote will play the remote start shut off tones and the orange LED will flash 1 time The parking lights will turn off.

Car finder (remote start must not be active)

- Press and hold the transmitter button for 3-seconds. The remote will respond with 1 short beep and the orange LED on the remote will flash once. The parking lights will start to flash 5 times slowly.

To unlock the doors (remote start must be active)

- Press and release the transmitter button for 1second. The remote will respond with 2 short beeps and the green LED on the remote will flash once, the horn will honk twice and the doors will unlock.

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Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE WILL BE DENIED. This warranty is non-transferable and is automatically void if: the original purchaser has not completed the warranty card and mailed it within ten (10) days from the date of purchase to the address listed on the card; the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING

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Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.
This warranty is only valid for sale of product(s) within the United States of America. Product(s) sold outside of the United States of America are sold "AS-IS" and shall have NO WARRANTY, express or implied. This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.
Make sure you have all of the following information from your authorized Directed dealer:

A clear copy of the sales receipt, showing the following:

- Date of purchase
- Your full name and address
- Authorized dealer's company name and address
- Type of alarm installed
- Year, make, model and color of the automobile
- Automobile license number
- Vehicle identification number
- All security options installed on automobile
- Installation receipts

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Directed ELECTRONICS

Vista, CA 92081
www.viper.com

The company behind Viper® Auto Security Systems is Directed Electronics.

Since its inception, Directed Electronics has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology, Directed Electronics is ISO 9001 registered.

Quality Directed Electronics products are sold and serviced throughout North America and around the world.

Call **(800) 876-0800** for more information about our products and services.

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Directed Electronics is committed to delivering world class quality products and services that excite and delight our customers.

LMD420V1

Quick Reference Install Guide

Remote Start with Keyless Entry
4203-series
1-button remote - 2-way

Wiring Connections

Primary Harness (H1), 9-pin connector

H1/1	LIGHT GREEN BLACK	(-) 200mA FACTORY ALARM DISARM OUTPUT
H1/2	GREEN/WHITE	(-) 200mA FACTORY ALARM REARM OUTPUT
H1/3	YELLOW	(+) IGNITION OUT (TO ALARM)
H1/4	WHITE/BLUE	(-) ACTIVATION INPUT
H1/5	ORANGE	(-) 500mA GROUND WHEN LOCKED/ANTI-GRIND OUTPUT
H1/6	BROWN	(-) 200mA HORN OUTPUT
H1/7	RED/WHITE	(-) 200mA TRUNK RELEASE OUTPUT*
H1/8	BLACK	GROUND INPUT
H1/9	WHITE	(+/-) LIGHT FLASH OUTPUT

*Option not available on 1-button remote

Remote Start harness, (H3) 5-pin connector

H3/1	BLACK/WHITE	(-) NEUTRAL SAFETY SWITCH INPUT
H3/2	VIOLET/WHITE	TACHOMETER INPUT
H3/3	BROWN	(+) BRAKE SHUTDOWN INPUT
H3/4	GRAY	(-) HOOD PIN SWITCH SHUTDOWN INPUT
H3/5	BLUE/WHITE	(-) 200 mA 2ND STATUS/REAR DEFOGGER OUTPUT

Guide Translations

For a Spanish version of the Installation Guide, please download it from www.directechs.com under Resources.

Estimado Cliente:
Si buscas los guías de instalación, por favor de bajar lo del Resources en el sitio www.directechs.com

Heavy Gauge Relay, 6-pin connector

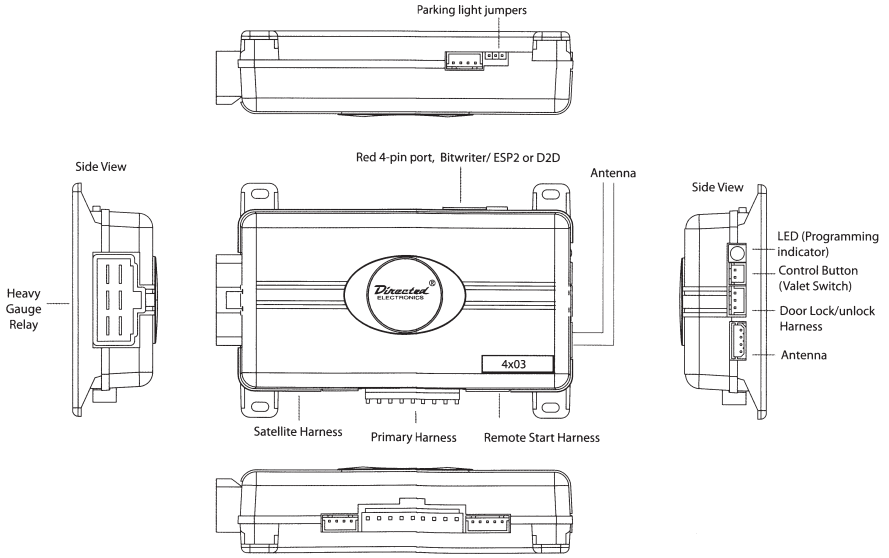
1	PINK	OUTPUT TO PRIMARY IGNITION CIRCUIT
2	PURPLE	OUTPUT TO STARTER CIRCUIT
3	ORANGE	OUTPUT TO ACCESSORY CIRCUIT
4	RED	(+) (30A) HIGH CURRENT 12V INPUT
5	PINK/WHITE	OUTPUT TO SECOND IGNITION/ACCESSORY CIRCUIT
6	RED	(+) (30A) HIGH CURRENT 12V INPUT

Satellite harness - 4-pin connector

1	BLUE	(-) 200mA STATUS OUTPUT
2	ORANGE	(-) 200mA ACCESSORY OUTPUT
3	PURPLE	(-) 200mA STARTER OUTPUT
4	PINK	(-) 200mA IGNITION OUTPUT

Door Lock, 3-pin connector

1	BLUE	(-) UNLOCK OUTPUT
2	EMPTY	NOT USED
3	GREEN	(-) LOCK OUTPUT



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Installation Points

Tach Learning

To learn the tach signal:
1. Start the vehicle with the key.
2. Within 5 seconds, press and hold the Valet (Control) button.
3. After 3 seconds the system LED will light constant when the tach signal is learned.
4. Release the Valet (Control) button.

> **Important:** This unit can learn the tachometer with the analog input or through D2D using an interface module. The unit confirms which source is used by flashing the parking lights.

When programming tach learning with:
- **Analog,** the parking lights flash **one** time
- **D2D interface module**, the parking lights flash **twice**

If the tachometer input on the system is connected to the vehicle, the D2D tachometer input will be ignored.

Virtual Tach

Note: Virtual tach is not recommended for diesel vehicles.

To program Virtual Tach:
1. After the install is complete, remote start the car.
2. If the car does not start on the first attempt, let the remote start attempt again.
3. Once the car starts, let it run until the parking lights come on.
4. When the parking lights come on, shut off the remote start with the remote - that's it! Virtual Tach is programmed.

Virtual Tach handles disengaging the starter motor during remote starting – it does not address over-rev. If the customer wants to have the over-rev protection capability, the tach wire must be connected. This may involve more installation shop charges than initially quoted.

> **Important:** If the Virtual Tach mode over cranks or doesn't crank the vehicle long enough to start and run the car, use the Bitwriter to add or subtract the starter output time. You can adjust the output time in increments of 50msec of the learned time using the Bitwriter.

Red 4-pin port, Bitwriter/ESP2 or D2D programming

The Red 4-pin plug may be configured as a Bitwriter/ESP2 or D2D port.
The factory default is Bitwriter/ESP2 mode.

To use as D2D mode follow the below steps:
1. Make sure White/Blue activation wire is grounded.
2. Power the unit up. The system LED flashes for 5 seconds to confirm D2D mode change.
3. Remove the White/Blue wire from ground.

To change from D2D to Bitwriter/ESP2 mode:
1. Make sure White/Blue activation wire is grounded.
2. Power the unit up, the system LED turns on solid for 5 seconds to confirm Bitwriter/ESP2 mode change.
3. Remove the White/Blue wire from ground.

The procedure can be repeated to toggle from one mode to the other.

> **Important:** If you power up the system with the White/Blue activation wire ungrounded, the system LED will come on solid for 5 seconds indicating the system is in Bitwriter/ESP2 mode.

Reset and Deletion

If a feature/virtual tach needs to be reset or the remote controls need to be deleted, use the following procedure.

1. Turn the ignition to the ON position (The heavy gauge pink wire must be connected).
2. Within 10 seconds, press and release the Valet button: 2 times if you want to delete remotes, 3 times to reset features or 4 times to reset virtual tach. These features are described next.

   Delete remotes: This feature erases all remotes from the memory of the system. This is useful in cases when a customer's remote is lost or stolen.
   Note: This does not reset the programmed features of the system or reset the Virtual Tach setting.

   Reset Features: This resets all features of the system to the factory default settings.
   Note: This feature does not delete the remotes from the system or reset the Virtual Tach setting

   Virtual Tach Reset: Deletes all previously learned values for Virtual Tach, and on the next remote start sequence the unit begins virtual tach initialization.

   Note: The "Zap" feature on the Bitwriter does not reset the Virtual tach setting.

3. Once you have selected the function step, press the Valet button once more and hold it. The LED flashes and the horn honks to confirm the selected functional step. Do not release the Valet button.
4. While holding the Valet button, press the button on the remote control. The horn honks to confirm that the feature has been successfully reset. You can now release the Valet button.

Remote Start Shutdown Diagnostics

To perform shutdown diagnostics:
1. With the ignition Off, **press** and **hold** the Valet button.
2. **Turn** the ignition On and then back Off while **holding** the Valet button.
3. **Release** the Valet button.
4. **Press** and **release** the Valet button. The LED flashes to report the last shutdown for one minute or until the ignition is turned on, as shown in the following table:

LED Flashes	Shutdown Mode
1 flash	Timed out
2 flashes	Over-rev shutdown
3 flashes	Low or no RPM, low battery (voltage and virtual tach modes)
4 flashes	Transmitter shutdown (or optional push button)
5 flashes	(-) Hood Shutdown (H3/4 GRAY)
6 flashes	(+) Shutdown (H3/3 BROWN)
7 flashes	(-) Neutral safety shutdown (H3/1 BLACK/WHITE)
8 flashes	Wait-to-start timed out

Bitwriters with a date code of 6a or older require an IC upgrade (p/n 998M). Some bitwriters with a date code of 6B do not require the IC upgrade, refer to tech tip # 1112 for more information.

D2D DATA TO DATA™

The Bitwriter® (p/n 998U) requires chip version **2.7** or newer to program this unit.

Programming System Features

The System Features Learn Routine dictates how the unit operates. It is possible to access and change most of the feature settings using the Valet button.

1. **Turn** the ignition on, then off.
2. **Select** a Menu. Within 10 seconds, **Press** and **hold** the Valet button. The number of LED flashes and horn honks indicates the menu number. A single LED flash and honk indicates menu 1. Two LED flashes and 2 honks indicates menu 2.
3. When the desired menu LED flashes and honks are heard, **release** the Valet button.
4. **Select** a Feature, within 10 seconds. **Press** and **release** the Valet button the number of times corresponding to the feature you wish to change. Then **press** and **hold** one more time to select the feature. The LED flashes and the horn honks to indicate which feature is selected.
5. **Program** the Feature. While holding the Valet button, you can program the feature using the remote control.

Pressing the button on the remote control advances to each feature option. The LED flashes and the horn honks indicating which option is selected.

Once a feature is programmed:
- Other features can be programmed within the same menu
- Another menu can be selected
- The learn routine can be exited if programming is complete

To access another feature in the same menu:
1. **Press** and **release** the Valet button the number of times necessary to advance from the feature you just programmed to the next one you want to program.
2. Then **press** the Valet button once more and **hold** it.

To select another menu:
1. **Press** and **hold** the Valet button.
2. After 3 seconds, the unit advances to the next menu, the horn honks and LED flashes indicating which menu has been accessed.

The learn routine exits if any of the following occurs:
- The ignition is turned On
- There is no activity for 30 seconds
- The Valet button is pressed too many times

Bitwriter - Only Options

If programming with the Bitwriter®, the learn routine can be locked or unlocked. If the learn routine has previously been locked, it must be unlocked with Bitwriter® - this cannot be done manually with the Valet button.

The Bitwriter® gives you access to a wider range of system options. These additional features and the adjustments that may be programmed are described in the table below.

Menu Item	Feature	Default	Options
1	Engine Runtime	**12 min.**	1-60 min.
2	Diesel start type	**Off**	Timed
3	Diesel start delay time (seconds)	**15 sec**	1-90 sec.
4	Virtual Tach Fine Tune	**Not initialized**	0 to 1 second in 50 millisecond increments
5	Remote control programming	**Unlocked**	Locked
6	Feature Programming	**Unlocked**	Locked

Feature Menus

Default settings are in bold type.

Menu 1

Feature #	Feature	Opt. 1	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	Horn function	**Off**	Siren 20 mS	Siren 30 mS	Siren 40 mS	Siren 50 mS
2	Ignition controlled lock	On	**Off**			
3	Ignition controlled unlock	On	**Off**			
4	Doorlock output duration	**0.8 sec.**	3.5 sec.	0.4 sec.		
5	Double pulse unlock	**Off**	On			
6	Double pulse lock	**Off**	On			
7	Factory Alarm Disarm function	**with unlock**	Before unlock	Remote start only		
8	Factory Alarm Disarm Pulses	**Single**	Double			
9	Comfort* Closure	Comfort Closure 1	**Off**	Comfort Closure 2		
10	Panic*	**On**	Off			

*Option not available on 1-button remote

Menu 2

Feature #	Feature	Opt. 1	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	Engine checking	**Virtual tach**	voltage	Off	tachometer	
2	Engine Runtime	**12 min**	24 min	60 min		
3	Park light output	Pulsed	**Constant**			
4	Cranking time	**0.6 sec.**	0.8 sec.	1.0 sec.	1.2 sec.	1.4, 1.6, 1.8, 2.0, 4.0 sec
5	Activation pulse count	**1 pulse**	2 pulses	3 pulses		
6	2nd Ignition behavior	**Ignition**	Accessory			
7	Accessory output	**Off during wait-to-start**	On during wait-to-start			
8	2nd Status behavior	**Normal**	Latch rear defogger	Pulse rear defogger		
9	Anti-grind	**On**	Off			
10	Diesel start delay	**Off**	Timed 15 sec	Timed 30 sec.	Timed 45 sec.	
11	Timer mode-run time *	**12 min**	3 min	6 min	9 min	

*Option not available on 1-button remote

Remote Programming

1. Turn key to the ON position
2. Within 10 seconds, press and release Valet button one time.
3. Within 10 seconds, press and hold the Valet button. The LED will flash one time and the horn honks (if connected) to confirm entry into remote programming.
4. Press the button on the remote control.
5. The horn honks to confirm the remote has been programmed.
6. Release the Valet button, and turn the key to the Off position.
7. The horn sounds one long honk to confirm that remote programming has been exited.

The programming routine exits if any of the following occurs:
- The ignition is turned off
- There is no activity for 30 seconds
- The Valet button is pressed too many times

Basic Remote Functions

Button Press		Function when remote start is OFF	Function when remote start is ON
Press for less than 1.5 seconds		Start the engine	Unlock doors
Press for more than 1.5 seconds		Car finder	Stop the engine

See full Installation Guide for more detailed information on this system. Such information and more can be found online at:
www.directechs.com

Directed® ELECTRONICS

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WARNING
VEHICLE EQUIPPED WITH A DEI® REMOTE START SYSTEM
If vehicle battery is disconnected, the system may attempt to start when the battery is reconnected or transmitter is used. Press brake to disengage. Check with vehicle owner to determine if hood pin switch or override switch was installed to disengage the system for service.
IMPORTANT SAFETY NOTICE

Please send products and other correspondence to:

Directed
1 Viper Way
Vista, CA 92081

XFR01-01

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XFR01

1. 1. ☐ **Mr.** 2. ☐ **Mrs.** 3. ☐ **Ms.** 4. ☐ **Miss**

First Name **Initial** **Last Name**

Street **Apt.**

City **State/Province** **Zip/Postal code**

E-mail address

2. Your date of birth: / /
Month Year

3. Marital status: 01. ☐ Married 02. ☐ Single

4. Date of purchase: / /
Month Day Year

5. Model number:

6. Name of store where purchased:

7. Price paid:
(excluding tax)

8. Which Directed brand did you purchase?
01. ☐ Autostart
02. ☐ Avital
03. ☐ Clifford
04. ☐ Python
05 ☐ Vyper
06 ☐ Other

9. What type of product did you purchase?
01. ☐ Security system
02. ☐ Security system with remote start
03. ☐ Remote start system
04. ☐ Keyless entry system

10. In what vehicle will this product be used?
01. ☐ Car
02. ☐ Truck
03. ☐ SUV
04. ☐ Van
05. ☐ Minivan
06. ☐ Motorcycle
07. ☐ Boat
08. ☐ Motorhome
09. ☐ Other

Make of vehicle:

Model name:

VIN:

Year:
01. ☐ Bought new
02. ☐ Bought used
03. ☐ Leased new
04. ☐ Leased used

11. How did you first become aware of this product? *(check one)*
01. ☐ Local newspaper
02. ☐ Yellow pages
03. ☐ Magazine Ad
04. ☐ TV commercial
05. ☐ Magazine article/ review
06. ☐ Friend/Relative's recommendation
07. ☐ Radio commercial
08. ☐ Salesperson's recommendation
09. ☐ Motorsports sponsorship
10. ☐ Internet
11. ☐ Other

12. What factors most influenced the purchase? *(check up to three)*
01. ☐ Directed's reputation
02. ☐ Experience with Directed products
03. ☐ Experience with dealer
04. ☐ Value/Price
05. ☐ Special features
06. ☐ Warranty
07. ☐ Quality/Durability
08. ☐ Display in-store demo
09. ☐ Rebate/Promotion
10. ☐ Style/Design/Color
11. ☐ Dealer proximity
12. ☐ Friend's recommendation
13. ☐ Salesperson recommendation
14. ☐ Compatibility w/vehicle
15. ☐ Other

13. What benefits most influenced your decision to purchase this product? *(check up to three)*
01. ☐ Improved security
02. ☐ Improved convenience
03. ☐ Improved performance
04. ☐ Compatibility w/vehicle
05. ☐ Ease of installation
06. ☐ Style/Design/Color
07. ☐ Special features
08. ☐ Quality/Durability
09. ☐ Increase vehicle value
10. ☐ Functionality
11. ☐ Warranty
12. ☐ Price/Value
13. ☐ Rebate/Promotion
14. ☐ Immediate availability
15. ☐ Friend/Family's recommendation
16. ☐ Salesperson's recommendation
17. ☐ Dealer proximity

14. What other brands did you seriously consider before making this purchase?
01. ☐ No other brands considered
02. ☐ Other Directed brands
03. ☐ Code Alarm
04. ☐ Audiovox
05. ☐ Auto Page
06. ☐ Compustar
07. ☐ Prestige
08. ☐ Pursuit
09. ☐ Crime Stopper
10. ☐ Bulldog

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LRDEI007

Thank you for selecting an innovative product from Directed Electronics, Inc. (DEI®). Since its inception, DEI has brought the proven advantages of custom micro-controllers and innovative technologies to the automotive industry. DEI is committed to delivering the best products we know how to provide and constantly working to improve our products, quality, delivery and customer friendly features.

As a recipient of numerous patents, DEI has established new standards in electronic design, automated manufacturing and dealer support. DEI's electronic products are sold and serviced worldwide.

This product is covered by one or more of the following U.S. patents:

303,223	333,633	333,634	333,635	333,636	333,795
340,000	344,905	345,317	345,711	347,190	348,622
352,685	383,689	383,690	390,830	392,944	4,327,444
4,383,242	4,438,426	4,553,127	4,584,569	4,794,368	4,887,064
4,897,630	4,922,224	4,987,402	5,103,221	5,117,217	5,132,660
5,193,141	5,245,694	5,285,186	5,315,285	5,357,560	5,532,670
5,534,845	5,572,185	5,646,591	5,656,997	5,712,638	5,783,989
5,798,711	5,872,519	5,900,806	5,907,195	5,914,667	5,945,936
5,952,933	5,990,786	6,093,979			

International Patents:

Australia: 694,925

Canada: 1,315,859 and 2,067,099

Taiwan: 91817

Other patents pending

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